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Section X
Polycarbonates

DOW CHEMICAL U.S.A.: CALIBRE Polycarbonate Resins: 200 Series: FDA Compliance: 200-22:

Physical Properties:
- Melt flow rate (Condition O): 22
- Specific gravity: 1.20
- Specific volume, in 3/lb: 23.1
- Density, lb/in 3: 0.043
- Water absorption, %:
  - 24 hrs. @ 73F: 0.15
  - Equil 73F: 0.32
- Mold Shrinkage, in/in: 0.005-0.007
- Transmittance, %: 87-91
- Haze, %: 0.7-1.5
- Refractive index: 1.586

Thermal Properties:
- Deflection temp., F unannealed:
  - @ 264 psi: 258
- Specific heat, Btu/lb-F: 0.30
- Thermal conductivity, Btu-in/hr-ft 2-F: 1.35
- Coefficient of thermal expansion, in/in/F: 3.8 x 10 -5
- Vicat softening temp., F: 306

Electrical Properties:
- Dielectrical strength, V/mil: 399
  - *short time* 125 mils
- Dielectric constant:
  - 60Hz (100Hz): 3.00
  - 10 6 Hz: 2.95

Mechanical Properties:
- Tensile strength, psi:
  - Yield: 9000
  - Ultimate: 9500
- Elongation, %:
  - Yield: 7
  - Rupture: 120
- Tensile modulus, 10 5 psi: 3.4
- Flexural strength, psi: 14,000
- Flexural modulus, 10 5 psi: 3.50
- Compressive strength, psi: 10,000
- Shear Strength, psi:
  - Yield: 6000
  - Ultimate: 9000
- Izod impact strength, ft-lb/in:
  - Notched, 1/8" thick: 14
  - Unnotched, 1/8" thick: No break
- Tensile impact strength, ft-lb/in 2, S-type: 180
- Rockwell Hardness, R: 118
  M: 72

Flammability Ratings:
- Average extent of burning: <1"
- UL94 1/16": V-2
- UL94 1/8": V-2
- Oxygen Index: 26

DOW CHEMICAL U.S.A.: CALIBRE Polycarbonate Resins: 200 Series: FDA Compliance: 200-15:

Physical Properties:
- Melt flow rate (Condition O): 15
- Specific gravity: 1.20
- Specific volume, in 3/lb: 23.1
- Density, lb/in 3: 0.043
- Water absorption, %:
  - 24 hrs. @ 73F: 0.15
  - Equil 73F: 0.32
- Mold shrinkage, in/in: 0.005-0.007
- Transmittance, %: 87-91
- Haze, %: 0.7-1.5
- Refractive index: 1.586

Thermal Properties:
- Deflection temp., F unannealed:
  - @ 264 psi: 260
- Specific heat, Btu/lb-F: 0.30
- Thermal conductivity, Btu-in/hr-ft 2-F: 1.35
- Coefficient of thermal expansion, in/in/F: 3.8 x 10 -5
- Vicat softening temp., F: 309

Electrical Properties:
- Dielectrical strength, V/mil: 399
  - short time 125 mils
- Dielectric constant:
  - 60 Hz (100 Hz): 3.00
  - 10 6 Hz: 2.95

Mechanical Properties:
- Tensile strength, psi:
  - Yield: 9000
  - Ultimate: 10,300
- Elongation, %:
  - Yield: 7
  - Rupture: 150
- Tensile modulus, 10 5 psi: 3.4
- Flexural strength, psi: 14,000
- Flexural modulus, 10 5 psi: 3.50
- Compressive strength, psi: 10,000
- Shear strength, psi:
  - Yield: 6000
  - Ultimate: 9000
- Izod impact strength, ft-lb/in:
  - Notched, 1/8" thick: 16
  - Unnotched, 1/8" thick: No break
- Tensile impact strength, ft-lb/in 2, S-type: 220
- Rockwell hardness, R: 118
  M: 72

Flammability Ratings:
- Average extent of burning: <1"
- UL94 1/16": V-2
- UL94 1/8": V-2
- Oxygen index: 26

DOW CHEMICAL U.S.A.: CALIBRE Polycarbonate Resins: 200 Series:
FDA Compliance: 200-10:

Physical Properties:
- Melt flow rate (Condition O): 10
- Specific gravity: 1.20
- Specific volume, in 3/lb: 23.1
- Density, lbs/in 3: 0.043
- Water absorption %:
  - 24 hrs. @ 73F: 0.15
  - Equil. 73F: 0.32
- Mold shrinkage, in/in: 0.005-0.007
- Transmittance, %: 87-91
- Haze, %: 0.7-1.5
- Refractive index: 1.586

Thermal Properties:
- Deflection temp., F unannealed:
  - @ 264 psi: 263
- Specific heat, Btu/lb-F: 0.30
- Thermal conductivity, Btu-in/hr-ft 2-F: 1.35
- Coefficient of thermal expansion, in/in F: 3.8 x 10 -5
- Vicat softening temp., F: 312

Electrical Properties:
- Dielectrical strength, V/mil: 399
  - short time 125 mils
- Dielectric constant:
  - 60 Hz (100 Hz): 3.00
  - 10 6 Hz: 2.95

Mechanical Properties:
- Tensile strength, psi:
  - Yield: 9000
  - Ultimate: 10,300
- Elongation, %:
  - Yield: 7
  - Rupture: 150
- Tensile modulus, 10 5 psi: 3.5
- Flexural strength, psi: 14,000
- Flexural modulus, 10 5 psi: 3.50
- Compressive strength, psi: 10,000
- Shear strength, psi:
  - Yield: 6000
  - Ultimate: 9000
- Izod impact strength, ft-lb/in:
  - Notched, 1/8" thick: 17
  - Unnotched, 1/8" thick: No break
- Tensile impact strength, ft-lb/in 2, S-type: 250
- Rockwell hardness, R: 118
  M: 73

Flammability Ratings:
- Average extent of burning: <1"
- UL94 1/16": V-2
- UL94 1/8": V-2
- Oxygen index: 26

DOW CHEMICAL U.S.A.: CALIBRE Polycarbonate Resins: 200 Series:
FDA Compliance: 200-6:

Physical Properties:
- Melt flow rate (Condition O): 6
- Specific gravity: 1.20
- Specific volume, in 3/lb: 23.1
- Density, lb/in 3: 0.043
- Water absorption, %:
  - 24 hrs. @ 73F: 0.15
  - Equil 73F: 0.32
- Mold shrinkage, in/in: 0.005-0.007
- Transmittance, %: 87-91
- Haze, %: 0.7-1.5
- Refractive index: 1.586

Thermal Properties:
- Deflection temp., F unannealed:
  - @ 264 psi: 265
- Specific heat, Btu/lb-F: 0.30
- Thermal conductivity, Btu-in/hr-ft 2-F: 1.35
- Coefficient of thermal expansion, in/in/F: 3.8 x 10 -5
- Vicat softening temp., F: 314

Electrical Properties:
- Dielectrical strength, V/mil: 399
  - short time 125 mils
- Dielectric constant:
  - 60Hz (100Hz): 3.00
  - 10 6 Hz: 2.95

Mechanical Properties:
- Tensile strength, psi:
  - Yield: 9000
  - Ultimate: 10,500
- Elongation, %:
  - Yield: 7
  - Rupture: 150
- Tensile modulus, 10 5 psi: 3.5
- Flexural strength, psi: 14,000
- Flexural modulus, 10 5 psi: 3.50
- Compressive strength, psi:
  - Yield: 6000
  - Ultimate: 9000
- Izod impact strength, ft-lb/in:
  - Notched, 1/8" thick: 17
  - Unnotched, 1/8" thick: No break
- Tensile impact strength, ft-lb/in 2, S-type: 280
- Rockwell hardness, R: 118
  M: 73

Flammability Ratings:
- Average extent of burning: <1"
- UL 94 1/16": V-2
- UL 94 1/8": V-2
- Oxygen index: 26

DOW CHEMICAL U.S.A.: CALIBRE Polycarbonate Resins: 200 Series:
FDA Compliance: 200-4:

Physical Properties:
- Melt flow rate (Condition O): 4
- Specific gravity: 1.20
- Specific volume, in 3/lb: 23.1
- Density, lb/in 3: 0.043
- Water absorption, %:
  - 24 hrs. @ 73F: 0.15
  - Equil 73F: 0.32
- Mold shrinkage, in/in: 0.005-0.007
- Transmittance, %: 87-91
- Haze, %: 0.7-1.5
- Refractive index: 1.586

Thermal Properties:
- Deflection temp., F unannealed:
  - @ 264 psi: 270
- Specific heat, Btu/lb-F: 0.30
- Thermal conductivity, Btu-in/hr-ft 2-F: 1.35
- Coefficient of thermal expansion, in/in/F: 3.8 x 10 -5
- Vicat softening temp., F: 316

Electrical Properties:
- Dielectrical strength, V/mil: 399
  - short time 125 mils
- Dielectric constant:
  - 60 Hz (100 Hz): 3.00
  - 10 6 Hz: 2.95

Mechanical Properties:
- Tensile strength, psi:
  - Yield: 9000
  - Ultimate: 10,500
- Elongation, %:
  - Yield: 7
  - Rupture: 150
- Tensile modulus, 10 5 psi: 3.6
- Flexural strength, psi: 14,000
- Flexural modulus, 10 5 psi: 3.50
- Compressive strength, psi: 10,000
- Shear strength, psi:
  - Yield: 6000
  - Ultimate: 9000
- Izod impact strength, ft-lb/in:
  - Notched, 1/8" thick: 18
  - Unnotched, 1/8" thick: No break
- Tensile impact strength, ft-lb/in 2, S-type: 300
- Rockwell hardness, R: 118
  M: 74

Flammability Ratings:
- Average extent of burning: <1"
- UL94 1/16": V-2
- UL94 1/8": V-2
- Oxygen index: 26

DOW CHEMICAL U.S.A.: CALIBRE Polycarbonate Resins: 300 Series: General Purpose: 300-22:

Physical Properties:
- Melt flow rate (Condition O): 22
- Specific gravity: 1.20
- Specific volume, in 3/lb: 23.1
- Density, lb/in 3: 0.043
- Water absorption, %:
  - 24 hrs. @ 73F: 0.15
  - Equil 73F: 0.32
- Mold shrinkage, in/in: 0.005-0.007
- Transmittance, %: 87-91
- Haze, %: 0.7-1.5
- Refractive index: 1.586

Thermal Properties:
- Deflection temp., F unannealed:
  - @ 264 psi: 258
- Specific heat, Btu/lb-F: 0.30
- Thermal conductivity, Btu-in/hr-ft 2-F: 1.35
- Coefficient of thermal expansion, in/in/F: 3.8 x 10 -5
- Vicat softening temp., F: 306

Electrical Properties:
- Dielectrical strength, V/mil: 399
  - short time 125 mils
- Dielectric constant:
  - 60 Hz (100 HZ): 3.00
  - 10 6 Hz: 2.95

Mechanical Properties:
- Tensile strength, psi:
  - Yield: 9000
  - Ultimate: 9500
- Elongation, %:
  - Yield: 7
  - Rupture: 120
- Tensile modulus, 10 5 psi: 3.4
- Flexural strength, psi: 14,000
- Flexural modulus, 10 5 psi: 3.50
- Compressive strength, psi: 10,000
- Shear strength, psi:
  - Yield: 6000
  - Ultimate: 9000
- Izod impact strength, ft-lb/in:
  - Notched, 1/8" thick: 14
  - Unnotched, 1/8" thick: No break
- Tensile impact strength, ft-lb/in 2, S-type: 180
- Rockwell Hardness, R: 118
  M: 72

Flammability Ratings:
- Average extent of burning: <1"
- UL 94 1/16": V-2
- UL 94 1/8": V-2
- Oxygen index: 26

DOW CHEMICAL U.S.A.: CALIBRE Polycarbonate Resins: 300 Series:
General Purpose: 300-15:

Physical Properties:
- Melt flow rate (Condition O): 15
- Specific gravity: 1.20
- Specific volume, in 3/lb: 23.1
- Density, lb/in 3: 0.043
- Water absorption %:
  - 24 hrs. @ 73F: 0.15
  - Equil. 73F: 0.32
- Mold shrinkage, in/in: 0.005-0.007
- Transmittance, %: 87-91
- Haze, %: 0.7-1.5
- Refractive index: 1.586

Thermal Properties:
- Deflection temp., F unannealed:
  - @ 264 psi: 260

Electrical Properties:
- Dielectrical strength, V/mil: 399
  - short time 125 mils
- Dielectric constant:
  - 60 Hz (100 Hz): 3.00
  - 10 6 Hz: 2.95

Mechanical Properties:
- Tensile strength, psi:
  - Yield: 9000
  - Ultimate: 10,300
- Elongation, %:
  - Yield: 7
  - Rupture: 150
- Tensile modulus, 10 5 psi: 3.4
- Flexural strength, psi: 14,000
- Flexural modulus, 10 5 psi: 3.50
- Compressive strength, psi: 10,000
- Shear strength, psi:
  - Yield: 6000
  - Ultimate: 9000
- Izod impact strength, ft-lb/in:
  - Notched, 1/8" thick: 16
  - Unnotched, 1/8" thick: No break
- Tensile impact strength, ft-lb/in 2, S-type: 220
- Rockwell hardness, R: 118
  M: 72

Flammability Ratings:
- Average extent of burning: <1"
- UL94 1/16": V-2
- UL94 1/8": V-2
- Oxygen index: 26

DOW CHEMICAL U.S.A.: CALIBRE Polycarbonate Resins: 300 Series: General Purpose: 300-10:

Physical Properties:
- Melt flow rate (Condition O): 10
- Specific gravity: 1.20
- Specific volume, in 3/lb: 23.1
- Density, lb/in 3: 0.043
- Water absorption, %:
  - 24 hrs. @ 77F: 0.15
  - Equil 73: 0.32
- Mold shrinkage, in/in: 0.005-0.007
- Transmittance, %: 87-91
- Haze, %: 0.7-1.5
- Refractive index: 1.586

Thermal Properties:
- Deflection temp., F unannealed:
  - @ 264 psi: 263
- Specific heat, Btu/lb-F: 0.30
- Thermal conductivity, Btu-in/hr-ft 2, F: 1.35
- Coefficient of thermal expansion, in/in/F: 3.8 x 10 -5
- Vicat softening temp., F: 312

Electrical Properties:
- Dielectrical strength, V/mil: 399
  - short time 125 mils
- Dielectric constant:
  - 60 Hz (100 Hz): 3.00
  - 10 6 Hz: 2.95

Mechanical Properties:
- Tensile strength, psi:
  - Yield: 9000
  - Ultimate: 10,300
- Elongation, %:
  - Yield: 7
  - Rupture: 150
- Tensile modulus, 10 5 psi: 3.5
- Flexural strength, psi: 14,000
- Flexural modulus, 10 5 psi: 3.50
- Compressive strength, psi: 10,000
- Shear strength, psi:
  - Yield: 6000
  - Ultimate: 9000
- Izod impact strength, ft-lb/in:
  - Notched, 1/8" thick: 17
  - Unnotched, 1/8" thick: No break
- Tensile impact strength, ft-lb 2, S-type: 250
- Rockwell hardness, R: 118
  M: 73

Flammability Ratings:
- Average extent of burning: <1"
- UL94 1/16": V-2
- UL94 1/8": V-2
- Oxygen Index: 26

DOW CHEMICAL U.S.A.: CALIBRE Polycarbonate Resins: 300 Series:
General Purpose: 300-6:

Physical Properties:
- Melt flow rate (Condition O): 6
- Specific gravity: 1.20
- Specific volume, in 2/lb: 23.1
- Density, lb/in 3: 0.043
- Water absorption, %:
  - 24 hrs. @ 73F: 0.15
  - Equil 73F: 0.32
- Mold shrinkage, in/in: 0.005-0.007
- Transmittance, %: 87-91
- Haze, %: 0.7-1.5
- Refractive index: 1.586

Thermal Properties:
- Deflection temp., F unannealed:
  - @ 264 psi: 265
- Specific heat, Btu/lb-F: 0.30
- Thermal conductivity, Btu-in/hr-ft 2-F: 1.35
- Coefficient of thermal expansion, in/in/F: 3.8 x 10 -5
- Vicat softening temp., F: 314

Electrical Properties:
- Dielectrical strength, V/mil: 399
  - short time 125 mils
- Dielectric constant:
  - 60Hz (100Hz): 3.00
  - 10 6 Hz: 2.95

Mechanical Properties:
- Tensile strength, psi:
  - Yield: 9000
  - Ultimate: 10,500
- Elongation, %:
  - Yield: 7
  - Rupture: 150
- Tensile modulus, 10 5 psi: 3.5
- Flexural strength, psi: 14,000
- Flexural modulus, 10 5 psi: 3.50
- Compressive strength, psi: 10,000
- Shear strength, psi:
  - Yield: 6000
  - Ultimate: 9000
- Izod impact strength, ft-lb/in:
  - Notched, 1/8" thick: 17
  - Unnotched, 1/8" thick: No break
- Tensile impact strength, ft-lb/in 2, S-type: 280
- Rockwell Hardness, R: 118
  M: 73

Flammability Ratings:
- Average extent of burning: <1"
- UL94 1/16": V-2
- UL94 1/8": V-2
- Oxygen index: 26

DOW CHEMICAL U.S.A.: CALIBRE Polycarbonate Resins: 300 Series: General Purpose: 300-4:

Physical Properties:
- Melt flow rate (Condition O): 4
- Specific gravity: 1.20
- Specific volume, in 3/lb: 23.1
- Density, lb/in 3: 0.043
- Water absorption, %:
  - 24 hrs. @ 73F: 0.15
  - Equil. 73F: 0.32
- Mold Shrinkage, in/in: 0.005-0.007
- Transmittance, %: 87-91
- Haze, %: 0.7-1.5
- Refractive index: 1.586

Thermal Properties:
- Deflection temp., F unannealed:
  - @ 264 psi: 270
- Specific heat, Btu/lb-F: 0.30
- Thermal conductivity, Btu-in/hr-ft 2-F: 1.35
- Coefficient of thermal expansion, in/in/F: 3.8 x 10 -5
- Vicat softening temp., F: 316

Electrical Properties:
- Dielectrical strength, V/mil: 399
  - short time 125 mils
- Dielectric constant:
  - 60 Hz (100 Hz): 3.00
  - 10 6 Hz: 2.95

Mechanical Properties:
- Tensile strength, psi:
  - Yield: 9000
  - Ultimate: 10,500
- Elongation, %:
  - Yield: 7
  - Rupture: 150
- Tensile modulus, 10 5 psi: 3.6
- Flexural strength, psi: 14,000
- Flexural modulus, 10 5 psi: 3.50
- Compressive strength, psi: 10,000
- Shear strength, psi:
  - Yield: 6000
  - Ultimate: 9000
- Izod impact strength, ft-lb/in:
  - Notched, 1/8" thick: 18
  - Unnotched, 1/8" thick: No break
- Tensile impact strength, ft-lb/in 2, S-type: 300
- Rockwell hardness, R: 118
  M: 74

Flammability Ratings:
- Average extent of burning: <1"
- UL94 1/16": V-2
- UL94 1/8": V-2
- Oxygen index: 26

DOW CHEMICAL U.S.A.: CALIBRE Polycarbonate Resins: 700 Series: Ignition Resistance/Clarity:

700-15:

Physical Properties:
- Melt flow rate (Condition O): 15
- Specific gravity: 1.20
- Specific volume, in 2/lb: 23.1
- Density, lb/in 3: 0.043
- Water absorption, %:
  - 24 hrs. @ 73F: 0.15
  - Equil 73F: 0.32
- Mold shrinkage, in/in: 0.005-0.007
- Transmittance, %: 84-88
- Haze, %: 0.7-1.5
- Refractive index: 1.586

Thermal Properties:
- Deflection temp., F unannealed:
  - @ 264 psi: 260
- Vicat Softening temp., F: 309

Electrical Properties:
- Dielectrical strength, V/mil: 425
  - short time 125 mils

Mechanical Properties:
- Tensile strength, psi:
  - Yield: 8800
  - Ultimate: 9500

700-10:

Physical Properties:
- Melt flow rate (Condition O): 10
- Specific gravity: 1.20
- Specific volume, in 3/lb: 23.1
- Density, lb/in 3: 0.043
- Water absorption, %:
  - 24 hrs. @ 73F: 0.15
  - Equil 73F: 0.32
- Mold shrinkage, in/in: 0.005-0.007
- Transmittance, %: 84-88
- Haze, %: 0.7-1.5
- Refractive index: 1.586

Thermal Properties:
- Deflection temp., F unannealed:
  - @ 264 psi: 263
- Vicat softening temp., F: 312

Electrical Properties:
- Dielectrical strength, V/mil: 425
  - short time 125 mils

Mechanical Properties:
- Tensile strength, psi:
  - Yield: 8800
  - Ultimate: 9500

DOW CHEMICAL U.S.A.: CALIBRE Polycarbonate Resins: 700 Series: Ignition Resistance/Clarity(Continued):

700-6:

Physical Properties:
- Melt flow rate (Condition O): 6
- Specific gravity: 1.20
- Specific volume, in 3/lb: 23.1
- Density, lb/in 3: 0.043
- Water absorption, %:
  - 24 hrs. @ 73F: 0.15
  - Equil 73F: 0.32
- Mold shrinkage, in/in: 0.005-0.007
- Transmittance, %: 84-88
- Haze, %: 0.7-1.5
- Refractive index: 1.586

Thermal Properties:
- Deflection temp., F unannealed:
  - @ 264 psi: 265
- Vicat softening temp., F: 314

Electrical Properties:
- Dielectrical strength, V/mil: 425
  - short time 125 mils

Mechanical Properties:
- Tensile strength, psi:
  - Yield: 8800
  - Ultimate: 9500

700-4:

Physical Properties:
- Melt flow rate (Condition O): 4
- Specific gravity: 1.20
- Specific volume, in 3/lb: 23.1
- Density, lb/in 3: 0.043
- Water absorption, %:
  - 24 hrs. @ 73F: 0.15
  - Equil 73F: 0.32
- Mold shrinkage, in/in: 0.005-0.007
- Transmittance, %: 84-88
- Haze, %: 0.7-1.5
- Refractive index: 1.586

Thermal Properties:
- Deflection temp., F unannealed:
  - @ 264 psi: 270
- Vicat softening temp., F: 316

Electrical Properties:
- Dielectrical strength, V/mil: 425
  - short time 125 mils

Mechanical Properties:
- Tensile strength, psi:
  - Yield: 8800
  - Ultimate: 9500

DOW CHEMICAL U.S.A.: CALIBRE Polycarbonate Resins: 800 Series: Super Ignition Resistance:

800-15:

Physical Properties:
- Melt flow rate (Condition O): 15
- Specific gravity: 1.21
- Specific volume, in 3/lb: 22.9
- Density, lb/in 3: 0.044
- Water absorption, %:
  - 24 hrs. @ 73F: 0.15
  - Equil 73F: 0.32
- Mold shrinkage, in/in: 0.005-0.007

Thermal Properties:
- Deflection temp., F unannealed:
  - @ 264 psi: 266
- Vicat softening temp., F: 300

Electrical Properties:
- Dielectrical strength, V/mil: 405
  - short time 125 mils

Mechanical Properties:
- Tensile strength, psi:
  - Yield: 8700
  - Ultimate: 8500

800-10:

Physical Properties:
- Melt flow rate (Condition O): 10
- Specific gravity: 1.21
- Specific volume, in 3/lb: 22.9
- Density, lb/in 3: 0.044
- Water absorption, %:
  - 24 hrs. @ 73F: 0.15
  - Equil 73F: 0.32
- Mold shrinkage, in/in: 0.005-0.007

Thermal Properties:
- Deflection temp., F unannealed:
  - @ 264 psi: 266
- Vicat softening temp., F: 305

Electrical Properties:
- Dielectrical strength, V/mil: 405
  - short time 125 mils

Mechanical Properties:
- Tensile strength, psi:
  - Yield: 8700
  - Ultimate: 8500

DOW CHEMICAL U.S.A.: CALIBRE Polycarbonate Resins: 800 Series: Superior Ignition Resistance(Continued):

800-6:

Physical Properties:
- Melt flow rate (Condition O): 6
- Specific gravity: 1.21
- Specific volume, in 3/lb: 22.9
- Density, lb/in 3: 0.044
- Water absorption, %:
  - 24 hrs. @ 73F: 0.15
  - Equil. 73F: 0.32
- Mold Shrinkage, in/in: 0.005-0.007

Thermal Properties:
- Deflection temp., F unannealed:
  - @ 264 psi: 266
- Vicat softening temp.,F: 305

Electrical Properties:
- Dielectrical strength, V/mil: 405
  - short time 125 mils

Mechanical Properties:
- Tensile strength, psi:
  - Yield: 8700
  - Ultimate: 8500

800-4:

Physical Properties:
- Melt flow rate (Condition O): 4
- Specific gravity: 1.21
- Specific volume, in 3/lb: 22.9
- Density, lb/in 3: 0.044
- Water absorption, %:
  - 24 hrs. @ 73F: 0.15
  - Equil. 73F: 0.32
- Mold shrinkage, in/in: 0.005-0.007

Thermal Properties:
- Deflection temp., F unannealed:
  - @ 264 psi: 266
- Vicat softening temp., F: 310

Electrical Properties:
- Dielectrical strength, V/mil: 405
  - short time 125 mils

Mechanical Properties:
- Tensile strength, psi:
  - Yield: 8700
  - Ultimate: 8500

DOW CHEMICAL U.S.A.: CALIBRE Polycarbonate Resins: 2000 Series: For The Health Care Industry:

2060-22:

Physical Properties:
- Melt flow rate (Condition O): 22
- Specific gravity: 1.20
- Specific volume, in 3/lb: 23.1
- Density, lb/in 3: 0.043
- Water absorption, %:
  - 24 hrs. @ 73F: 0.15
  - Equil 73F: 0.32
- Mold shrinkage, in/in: 0.005-0.007
- Transmittance, %: 87-91
- Haze, %: 0.7-1.5
- Refractive index: 1.586

Thermal Properties:
- Deflection temp., F unannealed:
  - @ 264 psi: 258
- Vicat softening temp., F: 306

Electrical Properties:
- Dielectrical strength, V/mil: 399
  - short time 125 mils

Mechanical Properties:
- Tensile strength, psi:
  - Yield: 9000
  - Ultimate: 9500

2060-15:

Physical Properties:

- Melt flow rate (Condition O): 15
- Specific gravity: 1.20
- Specific volume, in 3/lb: 23.1
- Density, lb/in 3: 0.043
- Water absorption, %:
  - 24 hrs. @ 73F: 0.15
  - Equil 73F: 0.32
- Mold shrinkage, in/in: 0.005-0.007
- Transmittance, %: 87-91
- Haze, %: 0.7-1.5
- Refractive index: 1.586

Thermal Properties:
- Deflection temp., F unannealed:
  - @ 264 psi: 260
- Vicat softening temp., F: 309

Electrical Properties:
- Dielectrical strength, V/mil: 399
  - short time 125 mils

Mechanical Properties:
- Tensile strength, psi:
  - Yield: 9000
  - Ultimate: 10,300

DOW CHEMICAL U.S.A.: CALIBRE Polycarbonate Resins: 2000 Series: For The Health Care Industry(Continued):

2060:
2060-10:

Physical Properties:
Melt flow rate (Condition O): 10
Specific gravity: 1.20
Specific volume, in 3/lb: 23.1
Density, lb/in 3: 0.043
Water absorption, %:
24 hrs. @ 73F: 0.15
Equil 73F: 0.32
Mold shrinkage, in/in: 0.005-0.007
Transmittance, %: 87-91
Haze, %: 0.7-1.5
Refractive index: 1.586
Thermal Properties:
Deflection temp., F unannealed:
@ 264 psi: 263
Vicat softening temp., F: 312
Electrical Properties:
Dielectrical strength, V/mil: 399
short time 125 mils
Mechanical Properties:
Tensile strength, psi:
Yield: 9000
Ultimate: 10,300

2060-6:

Physical Properties:
Melt flow rate (Condition O): 6
Specific gravity: 1.20
Specific volume, in 3/lb: 23.1
Density, lb/in 3: 0.043
Water absorption, %:
24 hrs. @ 73F: 0.15
Equil 73F: 0.32
Mold shrinkage, in/in: 0.005-0.007
Transmittance, %: 87-91
Haze, %: 0.7-1.5
Refractive index: 1.586
Thermal Properties:
Deflection temp., F unannealed:
@ 264 psi: 265
Vicat softening temp., F: 314
Electrical Properties:
Dielectrical strength, V/mil: 399
short time 125 mils
Mechanical Properties:
Tensile strength, psi:
Yield: 9000
Ultimate: 10,500

DOW CHEMICAL U.S.A.: CALIBRE Polycarbonate Resins: 2000 Series: For The Health Care Industry(Continued):

2060-4:

Physical Properties:
- Melt flow rate (Condition O): 4
- Specific gravity: 1.20
- Specific volume, in 3/lb: 23.1
- Density, lb/in 3: 0.043
- Water absorption, %:
  - 24 hrs. @ 73F: 0.15
  - Equil 73F: 0.032
- Mold shrinkage, in/in: 0.005-0.007
- Transmittance, %: 87-91
- Haze, %: 0.7-1.5
- Refractive index: 1.586

Thermal Properties:
- Deflection temp., F unannealed:
  - @ 264 psi: 270
- Vicat softening temp., F: 316

Electrical Properties:
- Dielectrical strength, V/mil: 399
  - short time 125 mils

Mechanical Properties:
- Tensile strength, psi:
  - Yield: 9000
  - Ultimate: 10,500

2080:

2080-15:

Physical Properties:
- Melt flow rate (Condition O): 15
- Specific gravity: 1.20
- Specific volume, in 3/lb: 23.1
- Density, lb/in 3: 0.043
- Water absorption, %:
  - 24 hrs. @ 73F: 0.15
  - Equil 73F: 0.32
- Mold shrinkage, in/in: 0.005-0.007
- Transmittance, %: 87-91
- Haze, %: 0.7-1.5
- Refractive index: 1.586

Thermal Properties:
- Deflection temp., F unannealed:
  - @ 264 psi: 252
- Vicat softening temp., F: 298

Electrical Properties:
- Dielectrical strength, V/mil: 399
  - short time 125 mils

Mechanical Properties:
- Tensile strength, psi:
  - Yield: 9000
  - Ultimate: 9800

DOW CHEMICAL U.S.A.: CALIBRE Polycarbonate Resins: 2000 Series: For The Health Care Industry(Continued):

2080:
2080-4:

Physical Properties:
- Melt flow rate (Condition O): 4
- Specific gravity: 1.20
- Specific volume, in 3/lb: 23.1
- Density, lb/in 3: 0.043
- Water absorption, %:
  - 24 hrs. @ 73F: 0.15
  - Equil 73F: 0.32
- Mold shrinkage, in/in: 0.005-0.007
- Transmittance, %: 87-91
- Haze, %: 0.7-1.5
- Refractive index: 1.586

Thermal Properties:
- Deflection temp., F unannealed:
  - @ 264 psi: 260
- Vicat softening temp., F: 305

Electrical Properties:
- Dielectrical strength, V/mil: 399
  - short time 125 mils

Mechanical Properties:
- Tensile strength, psi:
  - Yield: 9000
  - Ultimate: 10,000

POLYMONT INTERNATIONAL, INC.: General Purpose Polycarbonate:

PC-1000c Typical Properties:
Izod Impact: 16.0 ft-lbs/in
Tensile Strength: 9,000 psi
Tensile Modulus: 315,000 psi
Flexural Strength: 13,700 psi
Flexural Modulus: 340,000 psi
Rockwell Hardness: 118R
Specific Gravity: 1.20
HDTUL unannealed: 270F
Mold Shrinkage: .005-.007 in/in
Melt Flow Index: 12 g/10 min
Colors: Natural

PC-1000t Typical Properties:
Izod Impact: 16.0 ft-lbs/in
Tensile Strength: 9,000 psi
Tensile Modulus: 315,000 psi
Flexural Strength: 13,700 psi
Flexural Modulus: 340,000 psi
Rockwell Hardness: 118R
Specific Gravity: 1.20
HDTUL unannealed: 270F
Mold Shrinkage: .005-.007 in/in
Melt Flow Index: 12 g/10 min
Colors: Tint
Blue
Smoke

PC-3000 Typical Properties:
Izod Impact: 12.5 ft-lbs/in
Tensile Strength: 8,500 psi
Tensile Modulus: 315,000 psi
Flexural Strength: 13,500 psi
Flexural Modulus: 330,000 psi
Rockwell Hardness: 112R
Specific Gravity: 1.
HDTUL unannealed: 265F
Mold Shrinkage: .005-.007 in/in
Melt Flow Index: 12.0 g/10 min
Colors: Black

POLYMONT INTERNATIONAL, INC.: Weatherable Ignition Retardant Polycarbonate PC-2000UV:

Izod Impact: 13.2 ft-lbs/in
Tensile Strength: 8,500 psi
Tensile Modulus: 315,000 psi
Flexural Strength: 13,500 psi
Flexural Modulus: 330,000 psi
Rockwell Hardness: 112R
Specific Gravity: 1.20
HDTUL unannealed: 265F
Mold Shrinkage: .005-.007 in/in
Flammability: UL-94#: V-2 @ 0.116 in (2.98 mm)
V-0 @ 0.238 in (6.06 mm)
Weatherability: UL-746C#: Passed
Melt Flow Index: 15.0 g/10 min

Underwriters Laboratories test values (File #E123498). UL-746C includes prolonged exposure to ultraviolet light and water, as well as water immersion.